

General Information			
Sample Name (IGSN)	EX1705-D8-4		
Describer	Kevin Konrad		
Sample Location	Fracture Zone		
Lithology prefix	Plagioclase		
General Lithology	Basalt		
Texture 1	Altered		
Texture 2			
Whole Rock Original (%)	100	Check [Ph + Vs + Gm = 100%]	OK
Whole Rock Present (%)	80	Check [Or = Pr + Rf]	OK
Whole Rock Replaced (%)	20	Check [Or = Pr + Rf]	OK
Total Groundmass Original (%)	100	Check [Gp + Gl + Ms = 100%]	OK
Total Groundmass Present (%)	80	Check [Or = Pr + Rf]	OK
Total Groundmass Replaced (%)	20	Check [Or = Pr + Rf]	OK
Whole Rock Summary	A variability altered plagioclase phyric basalt. Some areas are somewhat fresh while others are 100% recrystallized to a Fe-oxide and clay mixture. Plagioclase grains can be observed ranging up to a millimeter. Groundmass is coarse grained in the fresher areas.		
Thin Section Summary	The thin section covers a heavily altered plagioclase basalt. Spongy and skeletal structures are common for plagioclase grains. Groundmass consists of Fe-oxide and palagonite altered mesostasis with plagioclase and spinel. A few iddingsite grains are observed in the groundmass. Groundmass may be coarser/fresher in other regions of the sample. Some ferromanganese can be found filling fractures/voids.		



PHENOCRYSTS [Ph]	OL	PLAG	OPX	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]	Cross Polarized
Original (%) [Or]		5						95	
Present (%) [Pr]		3						76	
Replaced / Filled (%) [Rf]		2						19	
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK	
Minimum Size (mm)		0.25							
Maximum Size (mm)		0.75							
Modal Size (mm)		0.5							
Shape		an-subhedral							
Habit									
Zonation Type									
Zonation Extent									
Exsolution Type									
Special Features									
Comments		Skeletal and spongy textures are common.							



GROUNDMASS [Gp]	OL	PLAG	OPX	CPX	SPINEL	OTHER	GLASS [Gl]	MSTASIS [Ms]
Original (%) [Or]		10			5			85
Present (%) [Pr]		7			5			0
Replaced / Filled (%) [Rf]		3			0			85
Check [Or = Pr + Rf]	OK	OK	OK	OK	OK	OK	OK	OK
Minimum Size (mm)		0.1			0.1			
Maximum Size (mm)		0.25			0.25			
Modal Size (mm)		0.2			0.2			
Shape		subhedral			subhedral			
Habit								
Comments								Mostly Fe-oxide and palagonite. Some possible iddingsite grains.